**Appendix 1:** Categories and content of the Electronic Incident Report module embedded within the (removed for blinded review) Concussion (C3) application

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| Red flags | ABCsEvidence of spine injuryPupil & visual functionWeakness, numbness, tinglingSeizure activitySevere/worsening headacheSevere imbalance Signs of skull/facial fracture | Loss of consciousness Repeated EmesisAltered Mental StatusAmnesia DisorientationCombativenessGlasgow Coma ScaleMaddock’s questions |
| Witness of Injury | Athletic Trainer Injured AthleteTeammateCoach | Referee/OfficialParentTeam PhysicianOther |
| Date and time of injury |  |  |
| Worst Initial symptoms | HeadachePressure in headNeck painNausea/vomitingDizzinessBlurred VisionBalance problemsSensitivity to lightSensitivity to noiseFeeling slowed downFeeling in a fog“Don’t feel right” | Difficulty concentratingDifficulty rememberingFatigue/low energyConfusionDrowsinessMore emotionalIrritabilitySadnessNervous/anxiousRinging in the earsNumbness and tingling |
| Actions Taken  | Removed from playContinued to playa | Sent to emergency departmentReturned to playb |
| Injury Demographics | Sport and positionVenue (practice or game)Surface playing onMechanism of injury Location of impact | Location of painProtective equipment wornOther injuries sustainedAdditional Clinical notes |

Abbreviations: ABC’s refer to “Airway, Breathing, Circulation” as per first responder training;

aAthletes classified as “continued to play” did not undergo an onsite exam. Supplemental documentation was used to further stratify those who continued to play due to a delayed symptom onset versus delayed reporting of the injury to medical personnel.

bAll athletes classified as “returned to play” underwent an exam by personnel onsite and were permitted to return to play. Supplemental documentation was used to determine whether the athlete was cleared by the athletic trainer or if no athletic trainer was onsite at the time of injury (ie: cleared by a coach or other non-medical personnel).